

FORM PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office				Attorney Docket No. 015389-002920	Serial No.: 08/846,017	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary) (37 CFR § 1.98(b))				Applicant: Thomas R. Cech et al.				
				Filing Date: 04/25/97		Group Art Unit: 1642		
U.S. PATENT DOCUMENTS								
Examiner Initials		Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date	
<i>JMS</i>	AA	3,817,837	06/18/74	Tanenholtz et al.	195	103.5	05/14/71	
	AB	3,850,752	11/26/74	Schuurs et al.	195	103.5	10/29/71	
	AC	3,939,350	02/17/76	Kronick et al.	250	365	04/29/74	
	AD	3,996,345	12/07/76	Ullman et al.	424	12	06/30/75	
	AE	4,275,149	06/23/81	Litman et al.	435	7	11/24/78	
	AF	4,277,437	07/07/81	Maggio	422	61	12/10/79	
	AG	4,366,241	12/28/82	Tom et al.	435	7	08/07/80	
	AH	4,683,195	07/28/87	Mullis et al.	435	6	02/07/86	
	AI	4,683,202	07/28/87	Mullis	435	91	10/25/85	
	AJ	4,816,567	03/28/89	Cabilly et al.	530	387	04/08/83	
	AK	4,965,188	10/23/90	Mullis et al.	435	6	06/17/87	
	AL	5,583,016	12/10/96	Villeponteau et al.	435	91.3	10/27/94	
<i>D</i>	AM	5,489,508	02/06/96	West et al.	435	6	03/24/93	
FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS								
		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
<i>JMS</i>	AN	WO 84/03564	09/13/84	PCT	60112	23/54	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)								
<i>JMS</i>	AO	Zakian, "Telomeres: Beginning to Understand the End," <i>Science</i> 270:1601 [1995];						
	AP	Blackburn and Gall, "A tandemly repeated sequence at the termini of the extrachromosomal ribosomal RNA genes in <i>Tetrahymena</i> ," <i>J. Mol. Biol.</i> , 120:33 [1978];						
	AQ	Oka et al., "Inverted terminal repeat sequence in the macronuclear DNA of <i>Stylonychia pustulata</i> ," <i>Gene</i> 10:301 [1980];						
	AR	Klobutcher et al., "All gene-sized DNA molecules in four species of hypotrichs have the same terminal sequence and an unusual 3' terminus," <i>Proc. Natl. Acad. Sci.</i> , 78:3015 [1981];						
	AS	Lingner et al., "Telomerase RNAs of different ciliates have a common secondary structure and a permuted template," <i>Genes Develop.</i> , 8:1984 [1994];						
	AT	Biessmann et al., "Addition of Telomere-Associated HeT DNA Sequences "Heals" Broken Chromosome Ends in Drosophila," <i>Cell</i> 61:663 [1990];						
	AU	Sheen and Levis, "Transposition of the LINE-like retrotransposon TART to <i>Drosophila</i> chromosome termini," <i>Proc. Natl. Acad. Sci.</i> , 91:12510 [1994];						
	AV	Kipling and Cooke, "Hypervariable ultra-long telomeres in mice," <i>Nature</i> 347:400 [1990];						
	AW	Starling et al., "Extensive telomere repeat arrays in mouse are hypervariable," <i>Nucleic Acids Res.</i> , 18:6881 [1990];						
	AX	Shampay and Blackburn, "Generation of telomere-length heterogeneity in <i>Saccharomyces cerevisiae</i> ," <i>Proc. Natl. Acad. Sci.</i> , 85:534 [1988];						
	AY	Lustig and Petes, "Identification of yeast mutants with altered telomere structure," <i>Proc. Natl. Acad. Sci.</i> , 83:1398 [1986];						
<i>D</i>	AZ	Sandell et al., "Transcription of yeast telomere alleviates telomere position effect without affecting chromosome stability," <i>Proc. Natl. Acad. Sci.</i> , 91:12061 [1994];						
Examiner	<i>Doni R. Scheuer</i>			Date Considered:	<i>8/24/98</i>			
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<i>ZNS</i>	BA	Chan and Tye, "Organization of DNA sequences and replication origins at yeast telomeres," <i>Cell</i> 33:563 [1983];	
	BB	Wright <i>et al.</i> , "Saccharomyces telomeres assume a non-nucleosomal chromatin structure," <i>Genes Develop.</i> , 6:197 [1992];	
	BC	Gottschling and Cech, "Chromatin Structure of the Molecular Ends of Oxytricha Macronuclear DNA: Phased Nucleosomes and a Telomeric Complex," <i>Cell</i> 38:501 [1984];	
	BD	Blackburn and Chiou, "Non-nucleosomal packaging of a tandemly repeated DNA sequence at termini of extrachromosomal DNA coding for rRNA in <i>Tetrahymena</i> ," <i>Proc. Natl. Acad. Sci.</i> , 78:2263 [1981];	
	BE	Braunstein <i>et al.</i> , "Transcriptional silencing in yeast is associated with reduced nucleosome acetylation," <i>Genes Develop.</i> , 7:592 [1993];	
	BF	Makarov <i>et al.</i> , "Nucleosomal Organization of Telomere-Specific Chromatin in Rat," <i>Cell</i> 73:775 [1993];	
	BG	Tommerup <i>et al.</i> , "Unusual chromatin in human telomeres," <i>Mol. Cell. Biol.</i> , 14:5777 [1994];	
	BH	Watson, "Origin of concatemeric T7 DNA," <i>Nature New Biol.</i> , 239:197 [1972];	
	BI	J. Olovnikov, "A theory of marginotomy: The incomplete copying of template margin in enzymic synthesis of polynucleotides and biological significance of the phenomenon," <i>J. Theor. Biol.</i> , 41:181 [1973];	
	BJ	Henderson and Blackburn, "An overhanging 3' terminus is a conserved feature of telomeres," <i>Mol. Cell. Biol.</i> , 9:345 [1989];	
	BK	Wellinger <i>et al.</i> , "Saccharomyces Telomeres Acquire Single-Strand TG _{1,3} Tails Late in S Phase," <i>Cell</i> 72:51 [1993];	
	BL	Zahler and Prescott, "Telomere terminal transferase activity in the hypotrichous ciliate <i>Oxytricha nova</i> and a model for replication of the ends of linear DNA molecules," <i>Nucleic Acids Res.</i> , 16:6953 [1988];	
	BM	Lingner <i>et al.</i> , "Telomerase and DNA End Replication: No Longer a Lagging Strand Problem?," <i>Science</i> 269:1533 [1995];	
	BN	Yu <i>et al.</i> , "In vivo alteration of telomere sequences and senescence caused by mutated <i>Tetrahymena</i> telomerase RNAs," <i>Nature</i> 344:126 [1990];	
	BO	Singer and Gottschling, "TLC1: Template RNA Component of <i>Saccharomyces cerevisiae</i> Telomerase," <i>Science</i> 266:404 [1994];	
	BP	Autexier and Greider, "Functional reconstitution of wild-type and mutant <i>Tetrahymena</i> telomerase," <i>Genes Develop.</i> , 8:563 [1994];	
	BQ	Gilley <i>et al.</i> , "Altering specific telomerase RNA template residues affects active site function," <i>Genes Develop.</i> , 9:2214 [1995];	
	BR	McEachern and Blackburn, "Runaway telomere elongation caused by telomerase RNA gene mutation," <i>Nature</i> 376:403 [1995];	
	BS	Blackburn, "Telomerases," <i>Ann. Rev. Biochem.</i> , 61:113 [1992];	
	BT	Greider, "Telomere Length Regulation," <i>Ann. Rev. Biochem.</i> , 65:337 [1996];	
	BU	Greider, "Telomerase is processive," <i>Mol. Cell. Biol.</i> , 11:4572 [1991];	
	BV	Wellinger <i>et al.</i> , "Origin activation and formation of single-strand TG _{1,3} tails occur sequentially in late S phase on a Yeast linear plasmid," <i>Mol. Cell. Biol.</i> , 13:4057 [1993];	
	BW	Prescott, "The DNA of ciliated protozoa," <i>Microbiol. Rev.</i> , 58:233 [1994];	
	BX	Greenwood <i>et al.</i> , "Phylogenetic relationships within the class oligohymenophorea, phylum ciliophora, inferred from the complete small subunit rRNA gene sequences of <i>Colpidium campylum</i> , <i>Glaucoma chattoni</i> , and <i>Opisthontecta henneguyi</i> ," <i>J. Mol. Evol.</i> , 3:163 [1991];	
	BY	Berger and Kimmel, <i>Guide to Molecular Cloning Techniques</i> . Meth. Enzymol., vol. 152, Academic Press, San Diego CA [1987];	
<i>↓</i>	BZ	CCaruthers <i>et al.</i> , "New chemical methods for synthesizing polynucleotides," <i>Nucleic Acids Res. Symp. Ser.</i> , 215-223 [1980];	
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OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)					
ZMS	CA	Horn <i>et al.</i> , "Synthesis of oligonucleotides on cellulose. Part II: design and synthetic strategy to the synthesis of 22 oligodeoxynucleotides coding for gastric inhibitory polypeptide (GIP)," <i>Nucleic Acids Res. Symp. Ser.</i> , 225-232 [1980];			
	CB	Roberge, <i>et al.</i> , "A strategy for a convergent synthesis of N-linked glycopeptides on a solid support," <i>Science</i> 269:202 [1995];			
	CC	Creighton, <i>Proteins, Structures and Molecular Principles</i> , WH Freeman and Co, New York NY [1983];			
	CD	Sambrook <i>et al.</i> (1989) <i>Molecular Cloning, A Laboratory Manual</i> , Cold Spring Harbor Press, Plainview NY;			
	CE	Ausubel <i>et al.</i> (1989) <i>Current Protocols in Molecular Biology</i> , John Wiley & Sons, New York NY;			
	CF	Grant <i>et al.</i> , <i>Meth. Enzymol.</i> , 153:516-544 (1987);			
	CG	Scharf D <i>et al.</i> , "Heat stress promoters and transcription factors," <i>Results Probl. Cell Differ.</i> 20:125 [1994];			
	CH	Bitter <i>et al.</i> , "Expression and secretion vectors for yeast," <i>Meth. Enzymol.</i> , 153:516 [1987];			
	CI	Wigler <i>et al.</i> , "Transfer of purified herpes virus thymidine kinase gene to cultured mouse cells," <i>Cell</i> 11:223-32 [1977];			
	CJ	Lowy <i>et al.</i> , "Isolation of transforming DNA: Cloning the hampster aprt gene," <i>Cell</i> 22:817 [1980];			
	CK	Wigler <i>et al.</i> , "Transformation of mammalian cells with an amplifiable dominant-acting gene," <i>Proc. Natl. Acad. Sci.</i> , 77:3567 [1980];			
	CL	Colbere-Garapin <i>et al.</i> , "A new dominant hybrid selective marker for higher eukaryotic cells," <i>J. Mol. Biol.</i> , 150:1 [1981];			
	CM	Murry, <i>In McGraw Hill Yearbook of Science and Technology</i> , McGraw Hill, New York NY, pp 191-196, [1992];			
	CN	Hartman and Mulligan, "Two dominant-acting selectable markers for gene transfer studies in mammalian cells," <i>Proc. Natl. Acad. Sci.</i> , 85:8047 [1988];			
	CO	Rhodes <i>et al.</i> , "Transformation of maize by electroporation of embryos," <i>Meth. Mol. Biol.</i> , 55:121 [1995];			
	CP	Hampton <i>et al.</i> , <i>Serological Methods a Laboratory Manual</i> , APS Press, St Paul MN [1990]);			
	CQ	Maddox <i>et al.</i> , "Elevated serum levels in human pregnancy of a molecule immunochemically similar to eosinophil granule major basic protein," <i>J. Exp. Med.</i> , 158:1211 [1983];			
	CR	Merrifield, "Solid phase peptide synthesis. I. The synthesis of a tetrapeptide," <i>J. Am. Chem. Soc.</i> , 85:2149 [1963];			
	CS	Kohler and Milstein, "Continuous cultures of fused celss secreting antibody of predefined specificity," <i>Nature</i> 256:495-497 [1975];			
	CT	Kosbor <i>et al.</i> , "The production of monoclonal antibodies from human lymphocytes," <i>Immunol Today</i> 4:72 [1983];			
	CU	Cote <i>et al.</i> , "Generation of human monoclonal antibodies reactive with cellular antigens," <i>Proc. Natl. Acad. Sci.</i> , 80:2026-2030 [1983];			
	CV	Cole <i>et al.</i> , "The EBV-hybridoma technique and its application to human lung cancer," <i>Monoclonal Antibodies and Cancer Therapy</i> , Alan R Liss Inc, New York NY, pp 77-96 [1985];			
	CW	Orlandi <i>et al.</i> , "Cloning immunoglobulin variable domains for expression by the polymerase chain reaction," <i>Proc. Natl. Acad. Sci.</i> , 86: 3833 [1989];			
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	CY	Huse <i>et al.</i> , "Generation of a large combinatorial library of the immunoglobulin repertoire in phage lambda," <i>Science</i> 246:1275 [1989];			
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1	DB	Price, <i>Blood Rev.</i> , 7:127 [1993];		
	DC	Trask, "Fluorescence <i>in situ</i> hybridization: applications in cytogenetics and gene mapping," <i>Trends Genet</i> 7:149 [1991];		
	DD	Verma <i>et al.</i> , <i>Human Chromosomes: A Manual of Basic Techniques</i> , Pergamon Press, New York NY [1988];		
	DE	1994 Genome Issue of Science (265:1981f);		
	DF	Hudson <i>et al.</i> , "An STS-based map of the human genome," <i>Science</i> 270:1945 [1995];		
	DG	Whitehead Institute/MIT Center for Genome Research, Genetic Map of the Mouse, Database Release 10, April 28, 1995;		
	DH	Nielsen <i>et al.</i> , "Peptide nucleic acids (PNAs): Potential antisense and anti-gene agents," <i>Anticancer Drug Des.</i> 8:53-63 [1993];		
	DI	Dieffenbach and Dveksler, <i>PCR Primer, a Laboratory Manual</i> , Cold Spring Harbor Press, Plainview NY [1995];		
	DJ	Anderson and Young, "Quantitative Filter Hybridization," in <i>Nucleic Acid Hybridisation</i> pp 73-111 (1985);		
	DK	Coombs, <i>Dictionary of Biotechnology</i> , Stockton Press, New York NY [1994];		
	DL	Swanton <i>et al.</i> , "Arrangement of Coding and Non-coding Sequences in the DNA Molecules Coding for rRNAs in <i>Oxytricha</i> sp.," <i>Chromosoma</i> 77:203 [1980];		
	DM	Bradford, "A Rapid and Sensitive method for the Quantitation of Microgram Quantities of Protein Utilizing the Microgram Quantities of Protein Utilizing the Principle of Protein-Dye Binding," <i>Anal. Biochem.</i> , 72:248 [1976];		
	DN	Zaug <i>et al.</i> , "Catalysis of RNA Cleavage by a Ribozyme Derived from the Group I Intron of <i>Anabaena</i> Pre-tRNA ^{Leu} ," <i>Biochemistry</i> 33:14935 [1994];		
	DO	Lamond and Sproat, "Isolation and Characterization of Ribonucleoprotein Complexes," pp 103-140 (1994);		
	DP	Calvio <i>et al.</i> , "Identification of hnRNP P2 as TLS/FUS using electrospray mass spectrometry," <i>RNA</i> 1:724 [1995];		
	DQ	Sanger <i>et al.</i> , "DNA sequencing with chain-terminating inhibitors," <i>Proc. Natl. Acad. Sci.</i> , 74:5463 [1977];		
	DR	Collins <i>et al.</i> , "Purification of Tetrahymena telomerase and cloning of genes encoding the two protein components of the enzyme," <i>Cell</i> , 81: 677 (1995);		
	DS	Lendvay <i>et al.</i> , "Senescence mutants of <i>Saccharomyces cerevisiae</i> with a defect in telomere replication identify three additional EST genes," <i>Genetics</i> 144 (1996);		
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	DU	Greider and Blackburn, "A telomeric sequence in the RNA of <i>Tetrahymena</i> telomerase required for telomere repeat synthesis," <i>Nature</i> , 337: 331 (1989);		
	DV	Romero and Blackburn, "A conserved secondary structure for telomerase RNA," <i>Cell</i> , 67: 343 (1991);		
	DW	Conrad <i>et al.</i> , "RAP1 protein interacts with yeast telomeres in vivo: overproduction alters telomere structure and decreases chromosome stability," <i>Cell</i> , 63: 739 (1990);		
	DX	Fang <i>et al.</i> , "Oxytricha telomere-binding protein: separable DNA-binding and dimerization domains of the α -subunit," <i>Genes Develop.</i> 7: 870 (1993) and Gray <i>et al.</i> , <i>Cell</i> 67: 807 (1991);		
	DY	Gottschling and Zakian, "Telomere proteins: specific recognition and protection of the natural termini of Oxytricha macronuclear DNA," <i>Cell</i> 47: 195 (1986);		
	DZ	Lamond <i>et al.</i> , "Probing the structure and function of U2 snRNP with antisense oligonucleotides made of 2'-OMe RNA," <i>Cell</i> , 58: 383 (1989);		
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<i>JMS</i>	EA	Lingner <i>et al.</i> , "Reverse transcriptase motifs in the catalytic subunit of telomerase," <i>Science</i> 276: 561 (1997).	
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FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

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							Yes	No
<i>JRS</i>	FA	WO 96/12811	05/02/96	PCT	G12N	15/54		
	FB	WO 96/40868	12/19/96	PCT	G12N	9/00		
	FC	WO 96/19580	06/27/96	PCT	G12N	15/54		
	FD	WO 98/01542	01/15/98	PCT	G12N	9/12		
	FE	WO 98/01543	01/15/98	PCT	G12N	9/12		
<i>D</i>	FF	JP 09154575-A	06/17/97	JAPAN (Abstract Only)	A61K-028/51		X	

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	FI	Autexier et al., 1996, (Reconstitution of human telomerase activity and identification of a minimal functional region of the human telomerase RNA" <i>EMBO J</i> 15:5928-35
	FJ	GenBank Accession No. AA281296
	FK	Lingner et al., 1996, "Purification of telomerase from <i>Euplotes aediculatus</i> : requirement of a primer 3' overhang" <i>Proc. Natl. Acad. Sci. USA</i> 93:10712
	FL	Nakamura et al., 1997, "Telomerase Catalytic Subunit Homologs from Fission Yeast and Human," <i>Science</i> 277: 955.
	FM	Counter et al., 1997, "The catalytic subunit of yeast telomerase." <i>Proc. Nat'l Acad. Sci. U S A.</i> 94:9202-9207.
	FN	Meyerson et al., 1997, "hEST2, the Putative Human Telomerase Catalytic Subunit Gene, Is Up-Regulated in Tumor Cells and during Immortalization," <i>Cell</i> 90:785-795
	FO	Kilian et al., 1997, "Isolation of a candidate human telomerase catalytic subunit gene, which reveals complex splicing patterns in different cell types," <i>Hum. Mol. Genet.</i> 6:2011-2019.
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<i>D</i>	FQ	Weinrich et al., 1997, "Reconstitution of human telomerase with the template RNA component hTR and the catalytic protein subunit hTRT," <i>Nat. Genet.</i> 1997 Dec 1; 17(4): 498-502.
<i>D</i>	FR	Bodnar et al., 1998, "Extension of Life-Span by Introduction of Telomerase into Normal Human Cells," <i>Science</i> 279:349-352.

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